

Main.java



```
1
2 public class Employee {
3
4     private int empID;
5     private String empName;
6     private String empDesignation;
7
8     public int getEmpID() {
9         return empID;
10    }
11    public String getEmpName() {
12        return empName;
13    }
14    public String getEmpDesignation() {
15        return empDesignation;
16    }
17
18    public void setEmpID(int empID) {
19        this.empID = empID;
20    }
21    public void setEmpName(String empName) {
22        this.empName = empName;
```

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```
22     this.empName = empName,
23 }
24 public void setEmpDesignation(String empDesignation) {
25     this.empDesignation = empDesignation;
26 }
27 }
28
29 public class EmployeeTest {
30     public static void main(String[] args) {
31
32         Employee bogdan = new Employee();
33         bogdan.setEmpID(101);
34         bogdan.setEmpName("Mr. Bogdan");
35         bogdan.setEmpDesignation("Manager");
36         Employee bird = new Employee();
37         bird.setEmpID(102);
38         bird.setEmpName("Ms. Bird");
39         bird.setEmpDesignation("Engineer");
40         Output:
41         |
42         System.out.println("Employee Details for Mr. Bogdan:");
43         System.out.println("ID: " + bogdan.getEmpID());
44         System.out.println("Name: " + bogdan.getEmpName());
```

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```
29 public class EmployeeTest {
30     public static void main(String[] args) {
31
32         Employee bogdan = new Employee();
33         bogdan.setEmpID(101);
34         bogdan.setEmpName("Mr. Bogdan");
35         bogdan.setEmpDesignation("Manager");
36         Employee bird = new Employee();
37         bird.setEmpID(102);
38         bird.setEmpName("Ms. Bird");
39         bird.setEmpDesignation("Engineer");
40         Output:
41
42         System.out.println("Employee Details for Mr. Bogdan:");
43         System.out.println("ID: " + bogdan.getEmpID());
44         System.out.println("Name: " + bogdan.getEmpName());
45         System.out.println("Designation: " + bogdan.getEmpDesignation());
46         System.out.println("\nEmployee Details for Ms. Bird:");
47         System.out.println("ID: " + bird.getEmpID());
48         System.out.println("Name: " + bird.getEmpName());
49         System.out.println("Designation: " + bird.getEmpDesignation());
50     }
51 }
```

Output

Clear

```
Employee Details for Mr. Bogdan:
ID: 101
Name: Mr. Bogdan
Designation: Manager
Employee Details for Ms. Bird:
ID: 102
Name: Ms. Bird
Designation: Engineer
```

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Run

```
1 class SuperB {  
2     int x;  
3     void setIt (int n) { x=n;}  
4     void increase () { x=x+1;}  
5     void triple () {x=x*3;}  
6     int returnIt () {return x;}  
7 }  
8 class SubC extends SuperB {  
9     void triple () {x=x+3;}  
10    void quadruple () {x=x*4;}  
11 }  
12 public class TestInheritance {  
13     public static void main(String[] args) {  
14         SuperB b = new SuperB();  
15         b.setIt(2);  
16         b.increase();  
17         b.triple();  
18         System.out.println( b.returnIt() );  
19         SubC c = new SubC();  
20         c.setIt(2);  
21         c.increase();  
22         c.triple();  
23         System.out.println( c.returnIt() ); }  
24 }
```

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Run

```
1 |
2 class Person {
3
4     private String name;
5     private int id;
6
7     public Person() {
8     }
9     public Person(String name, int id) {
10         this.name = name;
11         this.id = id;
12     }
13
14     public String getName() {
15         return name;
16     }
17     public void setName(String name) {
18         this.name = name;
19     }
20     public int getId() {
21         return id;
22     }
23     public void setId(int id) {
24         this.id = id;
25     }
26 }
27
```

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Run

```
27
28 class Student extends Person {
29
30     private String course;
31
32     public Student(String name, int id, String course) {
33
34         super(name, id);
35         this.course = course;
36     }
37
38     public String getCourse() {
39         return course;
40     }
41     public void setCourse(String course) {
42         this.course = course;
43     }
44 }
45
46 class Lecturer extends Person {
47
48     private String programme;
49
50     public Lecturer(String name, int id, String programme) {
51
52         super(name, id);
53         this.programme = programme;
```


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Run

```
55
56 ~ public String getProgramme() {
57     return programme;
58 }
59 ~ public void setProgramme(String programme) {
60     this.programme = programme;
61 }
62 }
63
64 ~ public class TestPerson {
65 ~     public static void main(String[] args) {
66
67         Student student = new Student("John Doe", 101, "Computer Science");
68         Output:
69
70         Lecturer lecturer = new Lecturer("Jane Smith", 201, "Software
            Engineering");
71
72         System.out.println("Student Details:");
73         System.out.println("Name: " + student.getName());
74         System.out.println("ID: " + student.getId());
75         System.out.println("Course: " + student.getCourse());
76         System.out.println("\nLecturer Details:");
77         System.out.println("Name: " + lecturer.getName());
78         System.out.println("ID: " + lecturer.getId());
79         System.out.println("Programme: " + lecturer.getProgramme());
80     }
81 }
```